

Datasheet for ABIN7557220  
**SPG7 Protein (AA 1-781) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SPG7
Protein Characteristics:	AA 1-781
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPG7 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Spg7 Protein expressed in mammalian cells.
Sequence:	MAAALLLLRG LRPGPEPRPR RLWGLLSGRG PGLSSGAGAR RPYAARGTPV GPAAAGGHAP QSLLLRILTP SFEGISGLLL KQHIVPNAVR LWPLSGSTLY FNTSRMKQKN KDNDKPKGKT PEDDEEEKRR KEREDQMYRE RLRTLFIIL VMSLLNSLST SGGISWADF VNEMLAKGEV QRVQVVPESD VVEVYLHPGA VVFGRPRLAL MYRMQVANID KFEELRAAE DELNIESKDR IPVSYKRTGF FGNALYALGM TAVGLAILWY VFRLAGMTGR EGGFSAFNQL KMARFTIVDG KTGKGVSFQD VAGMHEAKLE VREFVDYLKS PERFLQLGAK VPKGALLLP PGCGKTLLAK AVATEAQVPF LAMAGPEFVE VIGGLGAARV RSLFKEARAR APCIVYIDEI DAVGKKRSTS MSGFSNTEEE QTLNQLLVEM DGMGTTDHVI VLASTNRADV LDNALMRPGR LDRHVFIDL TLQERREIFE QHLKGLKLTQ PSSFYSQRLA ELTPGFSGAD IANICNEAAL HAAREGHTSV HTFNFEYAVE RVIAGTAKKS KILSKEEQRV VAFHESGHAL VGWLEHTEA VMKVSIAVRT NAALGFSQML PRDQYLFTKE QLFERMCMAL GGRAAEAISF SRVTSGAQDD LRKVTRIAYS MVKQFGMAPS IGPVSFPEAQ EGLMGIGRRP FSQGLQQMMD HEAKLLVAKA YRHTEKVLLD

## Product Details

NLDKLQALAN ALLEKEVINY EDIEALIGPP PHGPKKMIAP QKWIDAEKER QASGEEEEAPA P

**Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

**Target:** SPG7

**Alternative Name:** Spg7 ([SPG7 Products](#))

**Background:** Paraplegin (EC 3.4.24.-) (Spastic paraplegia 7 protein),FUNCTION: ATP-dependent zinc metalloprotease. Plays a role in the formation and regulation of the mitochondrial permeability transition pore (mPTP) and its proteolytic activity is dispensable for this function (By similarity). {ECO:0000250|UniProtKB:Q9UQ90, ECO:0000305}.

**Molecular Weight:** 86.0 kDa

**UniProt:** [Q3ULF4](#)

## Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months